

#### MONTHLY REPORT

1 December - 31 December 1958

#### SYSTEMS ENGINEERING BRANCH ENGINEERING STAFF

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25X1A9A		
25X1A 25X1A6D	2. did not accept the OL Real Estate and Construction Division's approval of one additional 100 KW Diesel generator for the receiving site and, instead, requested the shipment of	
25X1A6D	a 200 KW unit. The problem is now in the hands of RE&CD and they have queried by cable asking for a further justification.	25X1/
	3. Procurement action was initiated for the Selective Calling equipment which is to be used to provide an alarm feature for a two way radio-telephone system requested . We	25X1/
	have received word, however, that there is a change in the requirement and procurement is being held up pending the arrival of a representative who will be on TDY at Headquarters in early January and will further define the requirement.	25X1/
	4. Work continues on the redesign of the Tiny Tot for use with the Teletape System. In order to utilize the standard 8-inch key tape reel mounted on the cover of the encipher TD it will be necessary to provide a reperforator shelf that stands approximately 2 inches higher than existing shelves so that, when installed over the encipher TD, there	
	will be sufficient room for the key tape container. Six of these new shelves are being built	25X1A5A1
* 1	5. A visit was made to the	25X1A5A1



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	6. A chart outlining the characteristics of the UHF multiplex equipment investigated in conjunction with Project was prepared5X1A6E and added to the existing study on VHF-UHF multiplex equipment.
25X1A6A	7. At the request of OC-ED, an R.F. antenna/equipment patch panel is being designed for the radio station. The patch panel will be fabricated at Headquarters and shipped to the communicator 25X1A6A during February 1959.
	8. An investigation was started to determine the cause of audio noise in the KL-7 and possible methods of reducing it. It was found that the major source of noise was caused by the print arm hitting against the print magnet solenoid. A G.R. 1551-A Sound Level Meter is being used in order to make more accurate sound level readings to determine the amount of noise generated by various components of the KL-7.
25X1A5A1	9. During this reporting period a conference was held with  Agnety requirements for four different LP antennas were discussed. These include a 55-600 mc pouchable, indoor antenna; a 30-600 mc collapsable outdoor antenna and a 60-600 mc steel parabolic with an attached
ğ.	rim mounted 600-1000 mc parabolic with 360° azimuth and 90° elevation control, both remotely operated. A prototype of the 55-600 mc antenna has already been received and is now being evaluated by R&D. A proposal for an additional 5 each 55-600 mc
25X1A5A1	antennas and 5 each 30-600 mc antennas has been received and is now being studied was also requested to send us a quotation for supplying and installing two receiving and one transmitting Logarithmic Periodic antennas. These cover from 6.5 to 60 megacycles and will be installed They will be mounted on self-supporting masts, will be rotatable through 360° and controlled from within the station.
	10. The Drafting Unit has prepared 66 drawings of which 4 were forwarded to two field stations as part of BYBECI.
25X1A6A	11. NEW PROJECTS  E-5117 - Space Requirements  E-5149 - Communications Facilities
25 V 1 A 2 D 2	12. SUSPENDED PROJECTS
25X1A2D2	E-5350 - E-5140 - Model 231-D Transmitter Pre-emphasis and Speech Clipping Modification

25X1

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	13. INACTIVE PROJECTS	
25X1A6A 25X1A6A	E-5080 - Mobile Message Center	lding
	14. COMPLETED PROJECTS	
	E-5147 - Receiving Antenna Patch Panel	
	15. ADMINISTRATIVE	
	TDY	
		$\neg$
25X1A9A		
	10 November	
25X1A9A SUBM	MITTED BY:	
	Chief, Systems Engineering Branch, OC-E	
_	achments: Listed on the next Page)	

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## SECRET

	ATTA	JHMENTS:
25X1C8A	1.	
	2.	Memorandum to the File, SUBJECT: Report of Trip to Detroit, Mich., and Mankato, Minn.
	3.	Memorandum for the File, SUBJECT: Report of Trip to
	4.	Memorandum to the File, SUBJECT: Meeting with to discuss possible further miniaturization of the CPC-2 Transmitter-Receiver combination.
	5•	Memorandum for the File, SUBJECT: Trip Report to 25X1A6A
	6.	Memorandum to the File, SUBJECT: Trip Report on Engineering Survey of New Station Sites
	7.	Memorandum to the File, SUBJECT: Engineering Survey for the New 25X1A6.  Station Installation 25X1A6.
	8.	Memorandum to the File, SUBJECT: Trip Report -
	9•	Projects and Activities of the December Monthly Report 25X1A6A